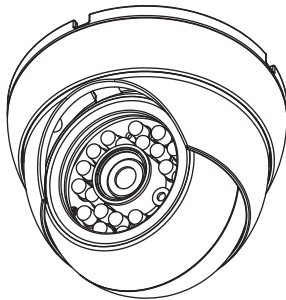


Resolution 960

KPC-ND521NU

Resolution 960 Series 750+ HTVL
IP66 IR Ball Camera

OPERATION MANUAL



KPC-ND521NUB: Resolution 960 IR IP66 Ball Camera 750+ HTVL
12VDC 66' range, with DWDR and DNR (NTSC) **Black color**

FC CE RoHS
www.ktncusa.com

KPC-ND521NUW: Resolution 960 IR IP66 Ball Camera 750+ HTVL
12VDC 66' range, with DWDR and DNR (NTSC) **White color**

Thank you for choosing our high quality camera.
Before attempting to connect or operate this unit, please read and follow these instructions.

KEY FEATURES

- * Superlative resolution of over 750 horizontal TV lines for amazing image quality
- * Flexible positioning for convenient wall or ceiling mounting
- * 3.6mm lens to capture the desired field of view
- * Equipped with 20 IR LEDs for 66 foot/20m range (depending on scene IR reflectivity)
- * Exview HAD II sensor delivers amazing low light sensitivity before IR illumination
- * Reflection preventing dual section cover glass isolates IR emitters from lens to prevent image distortion
- * IP66 vandal & weather resistant
- * Adaptive Tone Curve Reproduction ATR/Digital Wide Dynamic Range expansion to deliver properly exposed images despite unbalanced lighting in the scene
- * 2D-Noise Reduction increases picture clarity while improving DVR disk storage utilization
- * ATW with Anti-Color Roll for stability under fluorescent lighting
- * Low current draw 12VDC operation with Anti Color Roll for stability even without line lock

ACCESSORIES FURNISHED

Accessories	Screw	Plastic Anchors	Template	Manual
Q'ty	4	4	1	1

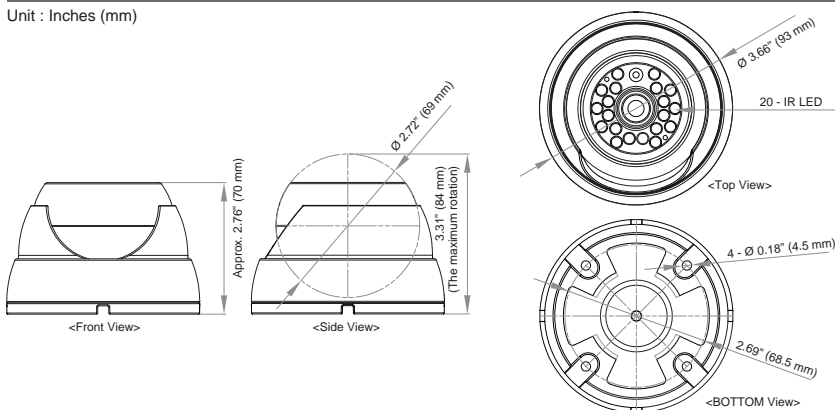
SPECIFICATIONS

Signal Format	NTSC
Image Device	1/3" 960H SONY EXview HAD CCD II
H.Resolution	750+TV Lines
Total Pixels / Effective Pixels	1020(H) X 508(V) / 976(H) X 494(V)
Electronic Shutter Speed	1/60~1/100,000sec
S/N Ratio	More than 50dB(AGC OFF)
Gamma	$\gamma = 0.45$
Min. Illumination	0 Lux (IR LED ON)
Sync System	Internal with Anti-Color Roll
Video Output	1.0 Vp-p Composite 75(Ω) unbalanced
2D DNR	AUTO
ATR / DWDR	AUTO
White Balance	ATW with Anti-Color Roll
AGC	AUTO
Day & Night	Digital Day & Night
Lens	Board Lens (f=3.6mm / F=2.0)
IR LED	850nm, 20ea
IR LED Distance	66' (20 m)
IR LED Half Angle	± 22 Degree
IP Rating	IP66
Power	DC12V ($\pm 10\%$),
Consumption	Max. 300mA (IR LED ON) / Max. 80mA (IR LED OFF)
Operating Temperature	14°F~122°F (-10°C~+50°C)
Storage Temperature	-4°F~140°F (-20°C~+60°C)
Weight	Approx. 11.29 Ounce
Manual Pan & Tilt	Pan 360° / Tilt 140°
Dimension	3.66(ϕ) * 2.76 inches

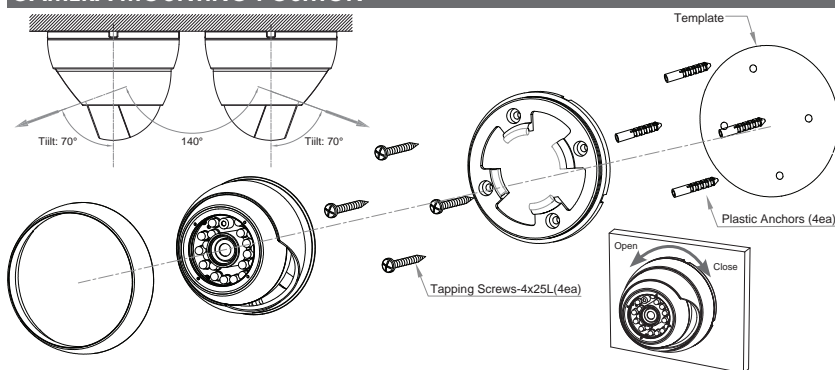
KT&C America, Inc. reserves the right to make changes to improve our products at any time without notice; we are not responsible for misprints.

DIMENSIONS

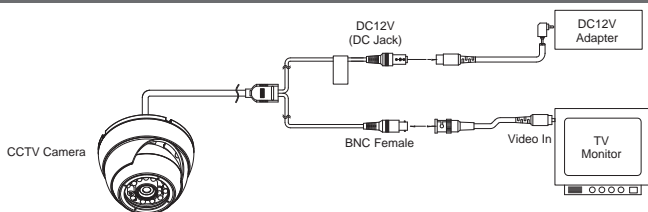
Unit : Inches (mm)



CAMERA MOUNTING POSITION



CONNECTION



! "When installing the camera, to insure reliable operation please seal well/protect the power and video connections from moisture."

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions;

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Note

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense."

WARNING

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Caution

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CAUTION

1. To obtain best picture quality and most stable operation, a regulated DC12 500mA power supply is recommended to power this camera. **An unregulated power supply may damage to the camera, and its use may void the product warranty.**
2. It is recommended that the camera is used with a monitor that has a CCTV quality 75 video impedance level.
If your monitor is switched to high impedance then please adjust accordingly.
3. Do not attempt to disassemble the camera to gain access to the internal components. Refer servicing to your dealer.
4. Never face the camera towards the sun or any bright or reflective light, which may cause smear on the picture and possible damage to the CCD.
5. **Do not remove the serial number sticker; it is required to obtain warranty service.**